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## In the Claims

Applicant respectfully requests entry of the following amendments to the claims. Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please amend pending claims 1, 2, 5, 6, 8, 9, 12 13 and 16 as noted below. Please cancel claims 3, 4, 14 and 15 as noted below.

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1. (Currently Amended) A method for a <u>mobile</u> first computing device to make authentication information available to a <u>base</u> second computing device, the method comprising:

creating authentication information, the authentication information including content data that include data for updating a care-of address of the mobile computing device, a public key of the first mobile computing device, a network address of the first mobile computing device, and a digital signature, the network address having a portion derived from the public key of the first mobile computing device, the digital signature generated by signing with a private key of the first mobile computing device corresponding to the public key, the digital signature generated from data in the set: the content data, a hash value of data including the content data; and

making the authentication information available to the <u>base second</u> computing device.

- 2. (Currently Amended) A method as in claim 1 wherein the authentication information is made available to the <u>base second</u> computing device by sending a message incorporating the authentication information to the <u>second base</u> computing device.
  - 3. (Canceled)

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4. (Canceled)

5. (Currently Amended) A method as in claim [[4]] 1, wherein the base second computing device is a home agent for the first mobile computing device, and wherein the network address of the first mobile computing device is a home address of the first mobile computing device.

- 6. (Currently Amended) A method as in claim [[4]] 1, wherein the second base computing device is a correspondent of the first mobile computing device, and wherein the network address of the first mobile computing device is a home address of the first mobile computing device.
- 7. A method as in claim 1, wherein the public key and the private key together form an uncertified key pair.
- 8. (Currently Amended) A method as in claim 1, wherein the network address of the first mobile computing device includes a route prefix portion and a node-selectable portion, and the node-selectable portion includes a portion of a hash value of data including the public key of the first mobile computing device.

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9. (Currently Amended) A method as in claim 8, wherein the node-selectable portion includes a portion of a hash value of data including the public key of the first mobile computing device and a modifier selected for preventing address conflicts.

- 10. A method as in claim 1, wherein the authentication information further includes data for preventing a replay attack.
- 11. A method as in claim 10, wherein the data for preventing a replay attack are in the set: time stamp, data identifying the second computing device as an intended recipient of the authentication information.
- 12. (Currently Amended) A computer-readable medium containing instructions for performing a method for a first computing device to make authentication information available to a second computing device, the method comprising:

creating authentication information, the authentication information including content data that include data for updating a care-of address of the first computing device, a public key of the first computing device, a network address of the first computing device, and a digital signature, the network address having a portion derived from the public key of the first computing device, the digital signature generated by signing with a

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private key of the first computing device corresponding to the public key, the digital signature generated from data in the set: the content data, a hash value of data including the content data; and

making the authentication information available to the second computing device.

13. (Currently Amended) A computer-readable medium having stored thereon a data structure, the data structure comprising:

content data that include data for updating a care-of address of a computing device;

a public key of the [[a]] computing device;

a network address of the computing device, the network address having a portion derived from the public key of the computing device; and

a digital signature, the digital signature generated by signing with a private key of the computing device corresponding to the public key, the digital signature generated from data in the set: the content data, a hash value of data including the content data.

- 14. (Canceled)
- 15. (Canceled)

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16. (Currently Amended) A data structure as in claim [[15]] 13, wherein the network address of the computing device is a home address of the computing device.

- 17. A data structure as in claim 13, wherein the network address of the computing device includes a route prefix portion and a node-selectable portion, and the node-selectable portion includes a portion of a hash value of data including the public key of the computing device.
- 18. A data structure as in claim 17, wherein the node-selectable portion includes a portion of a hash value of data including the public key of the computing device and a modifier selected for preventing address conflicts.
- 19. A data structure as in claim 13, wherein the data structure further includes data for preventing a replay attack.
- 20. A method for a second computing device to authenticate content data made available by a first computing device, the method comprising:

accessing authentication information made available by the first computing device, the authentication information including the content

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data, a public key of the first computing device, a first network address of the first computing device, and a digital signature;

deriving a portion of a second network address from the public key of the first computing device;

validating the digital signature by using the public key of the first computing device;

accepting the content data if the derived portion of the second network address matches a corresponding portion of the first network address and if the validating shows that the digital signature was generated from data in the set: the content data, a hash value of data including the content data.

21. A method as in claim 20, further comprising:

determining whether to accept the content data based on a time stamp in the authentication information.

22. A method as in claim 20, wherein the content data include data for updating a communications parameter for the first computing device, the method further comprising:

updating a record of a communications parameter for the first computing device.

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23. A method as in claim 22, wherein the communications parameter is a care-of address of the first computing device, and wherein updating includes updating a routing table maintained by the second computing device.

- 24. A method as in claim 20, wherein the authentication information further includes a modifier, and wherein deriving includes appending the modifier to the public key of the first computing device before deriving a portion of the second network address.
- 25. A computer-readable medium containing instructions for performing a method for a second computing device to authenticate content data made available by a first computing device, the method comprising:

accessing authentication information made available by the first computing device, the authentication information including the content data, a public key of the first computing device, a first network address of the first computing device, and a digital signature;

deriving a portion of a second network address from the public key of the first computing device;

validating the digital signature by using the public key of the first computing device;

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accepting the content data if the derived portion of the second network address matches a corresponding portion of the first network address and if the validating shows that the digital signature was generated from data in the set: the content data, a hash value of data including the content data.